tree.py

class Tree(object):

def \_\_init\_\_(self):

self.tree = []

def add(self, d):

self.tree = self.tree + [d]

def remove(self, d):

self.tree.remove(d)

def print(self, end='\n'):

print("(", end=' ')

for x in self.tree:

if isinstance(x, Tree):

x.print(end=' ')

else:

print(x, end=' ')

print(") ", end=end)

実行結果

[ryonosuke\_araki@RyonosukenoMacBook-Air 20:11:58] $ python3 [ ~/OneDrive - The University of Tokyo/soubunkiso2 ]

Python 3.7.7 (default, Mar 10 2020, 15:43:33)

[Clang 11.0.0 (clang-1100.0.33.17)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

>>> import tree

>>> t = tree.Tree()

>>> t.print()

( )

>>> t.add(1)

>>> t.add(2)

>>> t.print()

( 1 2 )

>>> t.remove(1)

>>> t.print()

( 2 )

>>> t.add(1)

>>> t2 = tree.Tree()

>>> t2.add(3)

>>> t2.add(4)

>>> t.add(t2)

>>> t.print()

( 2 1 ( 3 4 ) )

>>> t.remove(t2)

>>> t.print()

( 2 1 )

>>>